| <b>Work Ordo</b> <i>July-09-13 12:2</i>               |         | 4332                         |                              | *104                 | 332*      |        | da waran     |               |             |               |                  | Page 1         |
|---|---------|------------------------------|------------------------------|----------------------|-----------|--------|--------------|---------------|-------------|---------------|------------------|----------------|
| Item ID:<br>Revision ID:<br>Item Name:<br>Start Date: | 7/16/13 | E LUG ASS'Y  Start Qty: 1.00 | *1*                          | Accept               | *N900     | ID:    | 100          | )*            | Setup       | Start<br>Stop | *N:<br>*N:       | S1*<br>S2*     |
| Required Date:<br>Reference:                          | 7/16/13 | <b>Req'd Qty:</b> 1.00       | *1*                          |                      | Customer: |        |              |               |             |               |                  |                |
| Approvals:  |         | an: MLJ                      | Date: 13-69-\\               | Tooling: SPC (Y/N):  |           | Date:  |              |               | Run         | Start<br>Stop | *N <br>*N        | R1*<br>R2*     |
| Sequence ID/<br>Work Center I                         | D       | Operation<br>Description     |                              | Set Up/<br>Run Hours | Tool ID   | Tool # | Plan<br>Code | Accept<br>Qty | Rejo<br>Qty |               | Reject<br>Number | Insp.<br>Stamp |
| Draw Nbr<br>D4148                                     | Rev     | vision Nbr                   | -                            |                      |           |        |              |               |             |               |                  |                |
| *100<br>*100*<br>Small Fab<br>Small Fab               |         | Memo<br>1- Assemble          | e as per dwg                 | 0.00                 |           |        |              | K             |             |               |                  | <b>[</b> ]3    |
| *110 *110* QC Quality Control                         |         | QC5- Inspect part comp  Memo | leteness to step on W/O      | 0.00 Sh<br>0.00 139  |           |        |              |               | <u> </u>    | •             |                  |                |
| 120 <b>*120*</b> Packaging                            |         | Identify as per dwg & S      | tock Location: <u>5T46</u> C | 0.00                 |           | . *    |              | _1×           | . (2        | 40            | 13-0             | 9-13           |

Packaging

| DQA:          |                        |                                     | Date:    |       |                                       | •                            |          |                 |                   |              |               |                | •      | AA PT              |
|---------------|------------------------|-------------------------------------|----------|-------|---------------------------------------|------------------------------|----------|-----------------|-------------------|--------------|---------------|----------------|--------|--------------------|
| *             |                        |                                     | <b>.</b> |       |                                       | WORK ORDER NON-              | -C(      | ONFO            | RMANCE / UF       |              |               |                |        | AEROSPACE          |
| QA Closed:    |                        |                                     | Date:    |       | 1                                     |                              |          | r               |                   | W            | ork Order up  | date only      |        |                    |
| Work Orde     | er:                    |                                     |          |       |                                       | DISPOSITION                  |          |                 |                   | AGAINST DE   | EPARTMENT,    | /PROCESS       |        |                    |
|               | _                      |                                     |          |       | _                                     | Rework                       |          |                 | Skid-tube         | Crosstube    | 7             | Water Jet      |        | Engineering        |
| Part N        | No.                    |                                     |          |       |                                       | Scrap                        |          |                 | Machining         | Small Fab    | Pro           | d. Eng. Coor.  | ヿ      | Quality            |
|               |                        |                                     |          |       | _                                     | Use-as-is                    |          |                 | noforming         | Finishing    |               | e/Packaging    | 目      | Other              |
| NCR N         | No.                    |                                     |          |       |                                       | Suspected Unapproved         |          | Ì               | Large Fab         | Composite    |               | Supplier       |        |                    |
|               |                        |                                     |          |       | _                                     |                              | •        |                 |                   |              |               |                | -      |                    |
| Root          |                        | ,                                   |          |       | Desci                                 | ription of work order update |          | Initial         | Acti              | on           | Sign &        |                |        |                    |
| Cause         |                        | Date                                | Step     | Qty   |                                       | or non-conformance           | Ch       | nief Eng        | Descri            | ption        | Date          | Verification   | 1      | QC Inspector       |
| Design        |                        |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Doc/Data      | Ш                      |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Equip/Tooling |                        |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Handling/Pre  | Щ                      |                                     |          |       |                                       |                              |          |                 |                   |              |               |                | -      |                    |
| Material      | $\Box$                 | _                                   |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Operator      |                        |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Offset/Setup  | ·                      |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Process       | Jip                    |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Supplier      | $\square$              |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Training      |                        |                                     |          |       |                                       |                              |          |                 |                   |              |               |                | ı      |                    |
| Transport     | Н                      |                                     |          |       |                                       |                              |          |                 |                   |              |               |                |        |                    |
| Unapproved    |                        |                                     |          |       |                                       |                              | <u> </u> |                 |                   |              |               |                |        |                    |
| 1 . 1*        |                        | _                                   |          |       | · · · · · · · · · · · · · · · · · · · |                              | FA       | ULT CAT         | regory            |              |               |                |        |                    |
| Landii        |                        |                                     |          |       | _                                     | General                      |          | ] <sub>(5</sub> |                   |              | 7             |                |        |                    |
|               | —                      | ending                              |          |       |                                       | Bend                         |          | 1               | rogram            | <u> </u>     | Outside Dim   | } <del>-</del> |        | Pressure/Forced    |
| •             | H                      |                                     | t Concen | itric |                                       | BOM/Route                    |          | Grain           |                   | _            | Over/Under    | <del>-</del>   | _      | Set-up             |
|               | $\vdash$               | Cracks                              |          |       |                                       | Broken/Damage/Defect         |          | Hardwa          |                   | 116          | Part Incorred | -              | $\neg$ | Temperature/Cure   |
|               | Crimp/Kink/Ripple/Wave |                                     |          | vvave | -                                     | Burrs                        |          | 1               | ion Incomplete/Un | · —          | Part Lost/Mi  | ssing          | _      | Weld .             |
|               | Crushing               |                                     |          |       | -                                     | Countarial                   |          | 4               | ions Incomplete/U | nciear       | Part Moved    | , L            | ′اـــ  | Wrong Stock Pulled |
| :             | Crushing &             |                                     |          |       | Countersink                           |                              | 1 -      | ned/off center  | <u> </u>          | Positioned W |               | ٦.             | O4h    |                    |
|               | Heat Treat             |                                     |          |       | Cut Too Short                         |                              | Mislabe  |                 | L                 | Power Loss/  | ourge         | (              | Other  |                    |
|               | _                      |                                     |          | rube  |                                       | Drawing<br>Drill Holes       | _        | Misread         | ג                 |              |               |                |        |                    |
|               | Marks/Chatter          |                                     |          |       |                                       | Finish                       | -        | Off-set         | Calibration       |              |               |                |        |                    |
|               | _                      | Turning Sequence Wave/Twist in Tube |          |       |                                       | Fit/Function                 | _        | 1               | Lalibration       |              |               |                |        | ···········        |

| Work Ord<br>July-09-13 12:                 |                       | 04332                              |            | *104                 | 1332*                 |            |              |               |                |                | Page           |
|--|-----------------------|------------------------------------|------------|----------------------|-----------------------|------------|--------------|---------------|----------------|----------------|----------------|
| Item ID: Revision ID: Item Name:           | D4148-041             | BE LUG ASS'Y                       |            | Accept               | *N900                 | <b>040</b> | 100          | <b>)</b> *    | Setup Sta      |                | S1*<br>S2*     |
| Start Date:<br>Required Date<br>Reference: | 7/16/13<br>:: 7/16/13 | Start Qty: 1.00<br>Req'd Qty: 1.00 | *1*<br>*1* |                      | Cust Item I Customer: | D:         |              |               | - 0            |                |                |
| Approvals:                                 | Process P QC:         | lan:                               | Date:      | Tooling: SPC (Y/N):  |                       | ate:       |              | ı             | Run Sta<br>Sto | *N <br>*N      | R1*<br>R2*     |
| Sequence ID/<br>Work Center                | ID                    | Operation Description              |            | Set Up/<br>Run Hours | Tool ID               | Tool #     | Plan<br>Code | Accept<br>Qty | Reject<br>Qty  | eject<br>umber | Insp.<br>Stamp |

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

130

\*130\*

Quality Control

Page 2

| DQA:   |   |               | Date:                      |       |          | <br>WORK ODDED NON   | ~   | 201501   | DAAANCE / LIDDATE   |        |   |                                   | •        | *DART  |
|--|---|---------------|----------------------------|-------|----------|--|-----|--|---|--------|---|-----------------------------------|----------|--|
| QA Closed:   |   |               | Date:                      |       |          | WORK ORDER NON   | -(( | JNFOI  | RIVIANCE / UPDATE   | W      | ork Order up  | odate only                        |          | AEROSPACE  |
| Work Orde  | ⊇r·   |               |                            | ·     |          | DISPOSITION  |     |  | AGAIN   | NST DE | PARTMENT  | /PROCESS                          |          |  |
| Part N   | -   |               |                            |       | ,        | Rework Scrap   |     |  | Skid-tube Crosstu<br>Machining Small I                                |        | Pro   | Water Jet<br>d. Eng. Coor.        |          | Engineering Quality  |
| NCR N  | No  |               |                            |       | <u> </u> | Use-as-is Suspected Unapproved   |     | Thern  | noforming Finish Large Fab Compos                                     |        | Rec/Stor  | re/Packaging<br>Supplier          |          | Other  |
| Root   |   |               |                            |       | Desc     | ription of work order update   |     | nitial   | Action  |        | Sign &  | •                                 |          |  |
| Cause  |   | Date          | Step                       | Qty   |          | or non-conformance   | Ch  | ief Eng  | Description   |        | Date  | Verification                      | า        | QC Inspector   |
| Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved |   |               | Step Qty Strion comornance |       |          |  |     |  |   |        |   |                                   |          |  |
|  |   |               |                            | ,     |          |  | FAI | ULT CAT  | regory  |        |   |                                   | <u>.</u> |  |
| Landii   | ng G  | ear           |                            |       |          | General  | PAI | ULI CA   | IEGONY  |        | * ******  |                                   |          |  |
|  | Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube Marks/Chatter Turning Sequence |               |                            | /Wave |          | Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing Drill Holes Finish |     | Grain Hardwa Inspecti Instruct Misalig Mislabe Misread Off-set | on Incomplete/Unqualified ions Incomplete/Unclear ined/off center led |        | Outside Dim<br>Over/Under<br>Part Incorred<br>Part Lost/Mi<br>Part Moved<br>Positioned V<br>Power Loss/ | tolerance<br>ct<br>ssing<br>Vrong |          | Pressure/Forced<br>Set-up<br>Temperature/Cure<br>Weld<br>Wrong Stock Pulled<br>Other |
|  | П   | <del>- </del> |                            |       |          | Fit/Function   |     | Out of   | Seguence  |        |   |                                   |          |  |

Page 1

Work Order ID:

104332

Parent Item:

D4148-041

Parent Item Name:

FWD X-TUBE LUG ASS'Y

**Start Date:** 7/16/13

Required Date: 7/16/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 10.06.24 new issue DD verf:EC

IFP Rev:B 10.07.22 as per revB DD verf:JLM

EVB DD verf:JLM IPP Rev:C 10.10.29 as per reVC IPP REV:D 11.03.02 AS PER DWG REV.D DD VERF:EC

DD verf:EC Qty per Kit Total Unit of Qty on Qty Date Status Last Component Item ID/ Replacement Mfg/ Route Bin **Primary** Location Measure Hand Qty Issued Issued Item Name Item ID Location Seq ID Item Purch 100 Each 1,279.0000 4 No MS21043-3 Purchased Nut Loc Code Loc Oty Location FG 80 80 103691 GA 106 106 123899 ST315 1093 123899 196 897 124555 100 1,763.0000 MS21043-4 No Each Purchased Nut Loc Code Loc Oty Location 36 FG 36 104603 2 GA 2 121652 ST315 1725 25 121162 3 123021 29 123525 2 123900 816 125654

850

m125807

| WORK ORDER NON-CONFORMANCE / UPDATE  Work Order:    Disposition   Rework   Skid-tube   Machining   Small Fab   Prod. Eng. Coor.   Quality   Qualit | DQA:          |               |                     | Date:      |                                   |              | <u></u>                                 |          |          |             |                |                |                                       |                   |   |
|--|---------------|---------------|---------------------|------------|-----------------------------------|--------------|---|----------|----------|-------------|----------------|----------------|---------------------------------------|-------------------|---|
| Work Order:    Part No.  |               |               |                     |            |                                   |              | WORK ORDER NON-                         | -CC      | ONFO     | RMANCE / UP | PDATE          |                | _                                     |                   | A E R O S P A C E                             |
| Part No.   Scrap   Use-as-is   Suspected Unapproved   Skid-tube   Scrap   Folishing   Small Fab   Prod. Eng. Coor.   Quality   Use-as-is   Suspected Unapproved   Suspected Unapproved   Skid-tube   Skid-tube   Small Fab   Prod. Eng. Coor.   Quality   Use-as-is   Suspected Unapproved   Suspected Unapproved   Suspected Unapproved   Suspected Unapproved   Suspected Unapproved   Suspected Unapproved   Sign & Suspected Unapproved   Sign & Other   Sign & Ot   | QA Closed:    |               |                     | Date:      |                                   |              |   |          |          |             | V              | ork Order up   | date only                             |                   |   |
| Part No.   | Work Orde     | ır.           |                     |            |                                   |              | DISPOSITION                             |          |          |             | AGAINST D      | EPARTMENT,     | /PROCESS                              |                   |   |
| Part No.   | TVO IN OTAC   | _             |                     |            |                                   |              | Rework                                  |          |          | Skid-tube   | Crosstube      | ٦ .            | Water jet[                            | $\neg$            | Engineering                                   |
| NCR No.    Use-as-is   Suspected Unapproved   Large Fab   Composite   Supplier   Other   | Part N        | lo.           |                     |            |                                   |              | <b>!</b> ⊢                              |          |          | <b>—</b>    |                | Pro            | , ⊦                                   | ᅦ                 | <del></del>                                   |
| Root Cause Date Step Qty Description of work order update or non-conformance Chief Eng Description Date Verification QC Inspector Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved Unapproved Description Description Description Date Verification OC Inspector O |               | -             | •                   |            |                                   |              | Use-as-is                               |          |          |             | Finishing      | <del>-</del> i | · · · · · ·                           |                   | Other   |
| Cause Date Step Qty or non-conformance Chief Eng Description Date Verification QC Inspector  Design Doc/Data Equip/Tooling Handling/Pre Material Operator Chief Eng Description Date Verification QC Inspector  Offset/Setup Process Supplier Training Transport Unapproved Bending Gear General  Bending Gear General  Bending Gear General  Bend Folio/Program Outside Dimensions Over/Under tolerance Set-up  | NCR N         | 10            |                     | •          |                                   |              | Suspected Unapproved                    |          |          | Large Fab   | Composite      |                | Supplier                              |                   |   |
| Cause Date Step Qty or non-conformance Chief Eng Description Date Verification QC Inspector  Design Doc/Data Equip/Tooling Handling/Pre Material Operator Confiset/Setup Process Supplier Training Training Training Handling Process Supplier Training Handling Process Handling Gear General Handling Gear General Handling Gear General Set-up  | Root          |               |                     |            |                                   | Desc         | ription of work order update            |          | nitial   | Actio       | on             | Sign &         |                                       |                   |   |
| Design   Doc/Data   Equip/Tooling   Handling/Pre   Material   Operator   Offset/Setup   Process   Supplier   Training   Transport   Unapproved   Training   Bending   Bend   Folio/Program   Outside Dimensions   Pressure/Forced   Pressure/Forced   Set-up    | Cause         | ļ             | Date                | Step       | Qty                               |              | or non-conformance                      | Ch       | ief Eng  | Descri      | ption          | _              | Verification                          | ,                 | QC Inspector                                  |
| Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved Handling Gear General Bending Centre Not Concentric BOM/Route Folio/Program Over/Under tolerance Set-up   | Design        |               |                     |            |                                   | 1            |   |          |          |             |                |                |                                       |                   |   |
| Handling/Pre   Material   Operator   Offset/Setup   Process   Supplier   Training   Transport   Unapproved   Unapproved   Bending   Bend   Folio/Program   Outside Dimensions   Pressure/Forced   Set-up   Set-up  | Doc/Data      |               |                     |            |                                   |              |   |          |          |             |                |                |                                       |                   |   |
| Material Operator Offset/Setup Process Supplier Training Transport Unapproved Unapproved Bending Gear General Security Bending Centre Not Concentric BOM/Route Folio/Program Over/Under tolerance Set-up   | Equip/Tooling |               |                     |            |                                   | •••          |   |          |          |             |                |                |                                       |                   |   |
| Operator Offset/Setup Offset/Setup Process Supplier Training Transport Unapproved Department of the Concentric Department of the Con | Handling/Pre  |               |                     |            |                                   |              | <                                       |          |          |             |                |                |                                       |                   |   |
| Offset/Setup Process Supplier Training Transport Unapproved Unapproved Unapproved Bending Centre Not Concentric BOM/Route  FOlio/Program Outside Dimensions Over/Under tolerance Set-up  | Material      |               |                     |            |                                   |              |   |          |          |             |                |                |                                       | •                 |   |
| Process Supplier Training Transport Unapproved  Training Gear Bending Centre Not Concentric BOM/Route  FAULT CATEGORY  Folio/Program Certine Not Concentric BOM/Route  Folio/Program Over/Under tolerance Set-up   | Operator      |               |                     |            |                                   |              |   |          |          |             |                |                |                                       |                   |   |
| Supplier Training Transport Unapproved  Tanding Gear  General  Bending Centre Not Concentric  BOM/Route  FAULT CATEGORY  FAULT CATEGORY  FOlio/Program Outside Dimensions Pressure/Forced Grain Over/Under tolerance Set-up  | Offset/Setup  | _             |                     |            |                                   |              |   |          |          |             |                |                |                                       | ļ                 |   |
| Training Training Transport Unapproved Unapproved  Training Traini | Process       | _             | *                   |            |                                   |              |   |          |          |             |                |                |                                       |                   |   |
| Transport Unapproved   | Supplier      | _             |                     |            |                                   |              |   |          |          |             |                |                |                                       |                   |   |
| Unapproved   | Training      |               |                     |            |                                   |              |   |          |          | ·           |                |                |                                       |                   |   |
| FAULT CATEGORY  Landing Gear General  Bending Bend Folio/Program Outside Dimensions Pressure/Forced Centre Not Concentric BOM/Route Grain Over/Under tolerance Set-up  | Transport     | _             |                     |            |                                   |              |   |          |          |             |                |                |                                       |                   |   |
| Landing Gear  Bending Centre Not Concentric  General  Folio/Program Outside Dimensions Pressure/Forced Grain Over/Under tolerance Set-up   | Unapproved    |               |                     | <u> </u>   |                                   |              |   | <u> </u> |          |             |                |                |                                       |                   |   |
| Bending Bend Folio/Program Outside Dimensions Pressure/Forced Centre Not Concentric BOM/Route Grain Over/Under tolerance Set-up  |               |               |                     |            |                                   |              |   | FAL      | ULT CAT  | regory      |                |                |                                       |                   |   |
| Centre Not Concentric BOM/Route Grain Over/Under tolerance Set-up  | Landir        | $\overline{}$ |                     |            |                                   |              | 7                                       |          | le 1: /5 | •           | _              | 7              | . г                                   |                   | , <u>, , , , , , , , , , , , , , , , , , </u> |
|  | }             | $\overline{}$ |                     |            |                                   |              | i i                                     | H        | •        | rogram      | -              | ⊣              |                                       | _                 |   |
|  | }             |               |                     | ot Concer  | itric                             |              |   | Н        | 1        |             | -              | ╡              |                                       |                   | •   |
| Crimp/Kink/Ripple/Wave Burrs Inspection Incomplete/Unqualified Part Lost/Missing Weld  | · •           |               |                     | d. /Binnlo | /\4/240                           | H -          |   |          | ł        |             | - Lalified     | ⊣              | <b>+</b>                              |                   | •   |
|  |               |               |                     | ik/kibbie  | :/Ripple/Wave Burrs Contamination |              |   | $\vdash$ | 1 '      | •           | · —            | <b>⊣</b>       | ssirig                                | _                 |   |
|  |               |               | Crushing            |            | .  -                              | <del>{</del> | -                                       | 1        | •        | - Increase  | -1             | Vrong.         |                                       | wrong stock runed |   |
|  | }             | $\neg$        | Crushing Heat Treat |            |                                   | -            | 1 *                                     |          | -        | -{          | , r            | $\neg$         | Other                                 |                   |   |
|  | •             |               |                     |            |                                   | 4            | -                                       | 1        |          | <u>L</u>    | J. 0wei 2033/. | Jui BC         |                                       | <u> </u>          |   |
| Marks/Chatter Drill Holes Off-set  |               |               |                     |            |                                   |              | - · · · · · · · · · · · · · · · · · · · | -        | 1        |             |                |                | <del></del>                           | -                 |   |
| Turning Sequence Finish Out of Calibration   |               | -             | ⊣ ⊢                 |            |                                   |              |   | _        | 1        |             |                |                |                                       |                   |   |
| Wave/Twist in Tube Fit/Function Out of Sequence  |               | _             | _                   |            |                                   |              |   |          | 1        |             |                |                | · · · · · · · · · · · · · · · · · · · |                   |   |

H:/FORMS/Quality Assurance\approved QA/NCRWO RevH

Picklist Print
July-09-13 12:29:10 PM

| Work Order ID:<br>Parent Item: | 104332<br>D4148-041 |              |      |                 |         |      | Start    | Date: 7/16/13    | Required Date: 7/16/13 |
|--------------------------------|---------------------|--------------|------|-----------------|---------|------|----------|------------------|------------------------|
| Parent Item Name:              | FWD X-TUBE LUC      | G ASS'Y      |      |                 |         |      |          | <b>Qty:</b> 1.00 | Required Qty: 1,00     |
| D2690-6                        |                     | Manufactured | No   |                 | 100     | Each | 74.0000  | 1                | 18/13/19/12            |
| anyard                         |                     |              |      | <u>Location</u> | Loc Qty |      | Loc Code | Ć                |                        |
|                                |                     |              |      | ST014           | 58      |      |          |                  |                        |
|                                |                     |              |      | 100513          | 3       |      |          |                  | <del>_</del>           |
|                                |                     |              |      | 101075          | 4       |      |          |                  | <del></del>            |
|                                |                     |              |      | 101791          | 10      |      |          |                  | <del></del>            |
|                                |                     |              |      | 103055          | 24      |      |          | •                | <del></del>            |
|                                |                     |              |      | 103669          | 6       |      |          |                  | <del></del>            |
|                                |                     |              |      | 94775           | 9       |      |          |                  |                        |
|                                |                     |              |      | 95935           | 1       |      |          |                  |                        |
|                                |                     |              |      | 99808           | 1       |      |          |                  |                        |
|                                |                     |              |      | ST016           | 16      |      |          |                  |                        |
| *                              |                     |              |      | 102246          | 16      |      |          |                  |                        |
| 3910-1<br>rosstube Lug         |                     | Manufactured | No   |                 | 100     | Each | 17.0000  | 1                | 1 /3/13/05/10          |
| rosstade Eag                   |                     |              |      | <b>Location</b> | Loc Qty |      | Loc Code |                  |                        |
|                                |                     | •            |      | ST464           | 17      |      |          |                  | 102/191                |
|                                |                     |              |      | 100342          | 14      |      |          |                  | - 18/03911             |
|                                |                     |              |      | 81474           | 2       |      |          |                  | _ #                    |
|                                |                     |              |      | 89772           | 1       |      |          |                  |                        |
| 4091-1                         |                     | Manufactured | No   |                 | 100     | Each | 29.0000  | 1                |                        |
| OUNTING LUG                    |                     | Manufactureu | . 10 |                 | -       |      |          |                  | 1                      |
| TOON TAING LOO                 |                     |              |      | <u>Location</u> | Loc Qty |      | Loc Code |                  |                        |
|                                |                     |              |      |                 |         |      | Lot Code |                  |                        |
|                                |                     |              |      | ST144           | 29      |      |          |                  |                        |
|                                |                     |              |      | 100346          | 24      |      |          | <del></del>      | - 1                    |
|                                |                     |              |      | 97517           | 5       |      | 0-000    |                  |                        |
| 04148-1                        |                     | Manufactured | No   |                 | 100     | Each | 35.0000  | 2                | 2 / 20/09/             |
| rosstube Lug Plate, Fw         | va                  |              |      | <u>Location</u> | Loc Oty |      | Loc Code |                  | 7 / 1                  |
|                                |                     |              |      |                 |         |      |          |                  |                        |
|                                |                     |              |      | ST145           | 35      |      |          |                  |                        |
|                                |                     |              |      | 100297          | 13      |      | *        | <del>-1</del>    | _                      |
|                                |                     |              |      | 102771          | 20      |      |          |                  | _                      |
|                                |                     |              |      | 85753           | 2       |      |          |                  | <del>_</del>           |

| DQA:                 |                |                    | Date: _    |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
|----------------------|----------------|--------------------|------------|-------|---------------|------------------------------|-----|----------|-------------------|------------|---------------|---------------------------------------|------------|---------------------------------------|
|                      |                |                    |            |       |               | WORK ORDER NON-              | -C( | ONFO     | RMANCE / UF       |            |               | _                                     | _          | AEROSPACE                             |
| QA Closed:           |                |                    | Date:      |       |               |                              |     |          |                   | W          | ork Order up  | date only                             |            | -                                     |
| Work Ord             | er:            |                    |            |       |               | DISPOSITION                  |     |          |                   | AGAINST DI | EPARTMENT,    | PROCESS                               |            |                                       |
| Work Ord             | ٠              |                    |            |       |               | Rework                       |     |          | Skid-tube         | Crosstube  | 7             | Water Jet                             | $\neg$     | Engineering                           |
| Part 1               | No.            |                    |            |       |               | Scrap                        |     |          | Machining         | Small Fab  | Pro           | d. Eng. Coor.                         | ᅱ          | Quality                               |
|                      | •              |                    |            |       |               | Use-as-is                    |     | l .      | noforming         | Finishing  | -             | e/Packaging                           | $\exists$  | Other                                 |
| NCR I                | ۷o.            |                    |            |       |               | Suspected Unapproved         |     |          | Large Fab         | Composite  |               | Supplier                              | _          |                                       |
|                      |                |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Root                 |                |                    |            |       | Desc          | ription of work order update | 1   | Initial  | Acti              |            | Sign &        |                                       |            |                                       |
| Cause                |                | Date               | Step       | Qty   |               | or non-conformance           | Ch  | ief Eng  | Descri            | ption      | Date          | Verification                          |            | QC Inspector                          |
| Design               | Щ              | Ì                  | .          |       |               |                              |     |          |                   |            |               |                                       | -          |                                       |
| Doc/Data             |                |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Equip/Tooling        | $\vdash$       |                    |            |       |               |                              |     |          |                   |            |               |                                       | - 1        |                                       |
| Handling/Pre         | Ш              |                    |            |       |               |                              |     |          |                   |            |               |                                       | -          |                                       |
| Material             | $\vdash$       |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Operator             | $\vdash\vdash$ |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Offset/Setup         | Н              |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Process              | Н              |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Supplier<br>Training | ,              |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Transport            | $\vdash$       |                    |            |       |               |                              |     |          |                   |            |               |                                       |            |                                       |
| Unapproved           |                |                    |            |       |               | ·                            |     |          |                   |            |               |                                       |            |                                       |
| ă.                   | 11             |                    | 1 1        |       | L             |                              | FAI | ULT CAT  | EGORY             |            | 1             |                                       |            |                                       |
| Landi                | ng G           | Gear               |            |       |               | General                      | •   |          |                   |            |               |                                       |            | · · · · · · · · · · · · · · · · · · · |
|                      |                | Bending            |            |       |               | Bend                         |     | Folio/P  | rogram            |            | Outside Dim   | ensions [                             | $\Box$ F   | Pressure/Forced                       |
|                      |                | Centre No          | ot Concen  | itric |               | BOM/Route                    |     | Grain    |                   |            | Over/Under    | tolerance                             | ٦ <u>٠</u> | Set-up                                |
|                      |                | Cracks             |            |       |               | Broken/Damage/Defect         |     | Hardwa   | re .              |            | Part Incorred | t [                                   | 1          | Temperature/Cure                      |
|                      |                | Crimp/Kir          | nk/Ripple/ | /Wave | — · · · · · · |                              |     | Inspecti | on Incomplete/Un  | qualified  | Part Lost/Mi  | ssing                                 | <u> </u>   | Weld                                  |
|                      | -              | Cuffs              |            |       |               | Contamination                | -   | 4        | ions Incomplete/U | nclear     | Part Moved    |                                       | _]\        | Wrong Stock Pulled                    |
|                      | -              | Crushing           |            |       |               | Countersink                  | -   | 4        | ned/off center    |            | Positioned W  | /rong                                 |            |                                       |
|                      | Heat Treat     |                    |            |       |               | Cut Too Short                | -   | Mislabe  |                   |            | Power Loss/   | Surge                                 |            | Other                                 |
|                      |                | Inspection         | · .        | Tube  |               | Drawing                      |     | Misread  | I                 |            |               |                                       |            |                                       |
|                      | Ш              | Marks/Ch           |            |       |               | Drill Holes                  |     | Off-set  |                   |            |               |                                       |            |                                       |
|                      | Ш              | Turning S          |            |       | <u> </u>      | Finish                       |     | 1        | Calibration       |            |               | · · · · · · · · · · · · · · · · · · · |            |                                       |
|                      | 1              | Wave/Twist in Tube |            |       |               | Fit/Function                 |     | Out of 9 | Sequence          |            |               |                                       |            |                                       |

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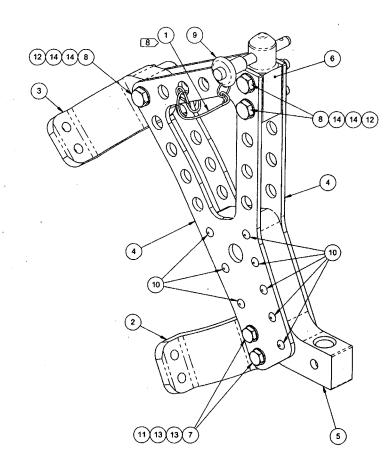
| Work Order ID: Parent Item: Parent Item Name: | 104332<br>D4148-041<br>FWD X-TUBE LUG | G ASS'Y      |    |          |          |         |      |          | Date: 7/16/13<br>t Qty: 1.00        | Required Date: 7/16/13  Required Qty: 1.00 |
|---|---------------------------------------|--------------|----|----------|----------|---------|------|----------|-------------------------------------|--|
| 04148-3<br>Stud Receiver, Lower               | T WD X TOBBLE                         | Manufactured | No |          |          | 100     | Each | 20.0000  | 1                                   | 1/50/0/12                                  |
| itaa Receiver, Eewer                          |                                       |              |    | Location | <u>1</u> | Loc Qty |      | Loc Code |                                     |  |
|   |                                       |              |    | ST145    |          | 20      |      |          |                                     | B195861 (                                  |
|   |                                       |              |    |          | 100534   | 20      |      |          |                                     |  |
| 4148-5  |                                       | Manufactured | No |          |          | 100     | Each | 31.0000  | 1 ,                                 | 1 / / / / / / / / / / / / / / / / / / /    |
| ebolt Stud                                    |                                       |              |    |          |          |         |      |          | Commence of the Automotive Commence | 901/10                                     |
|   |                                       |              |    | Location | <u>1</u> | Loc Qty |      | Loc Code |                                     |  |
|   |                                       |              |    | ST145    |          | 31      |      |          |                                     |  |
|   |                                       |              |    |          | 100497   | 20      |      |          |                                     |  |
|   |                                       |              |    |          | 102112   | 11      |      |          |                                     | - 0-//                                     |
| N3C12A  |                                       | Purchased    | No |          |          | 100     | Each | 109.0000 | 2                                   | 2 /05/13                                   |
| olt   |                                       |              |    |          |          |         |      |          |                                     | 200/01/10                                  |
|   |                                       |              |    | Locatio  | <u>1</u> | Loc Oty |      | Loc Code |                                     |  |
|   |                                       |              |    | ST351    |          | 109     |      |          | ~~~                                 |  |
|   |                                       |              |    |          | 123648   | 5       |      |          |                                     |  |
|   |                                       |              |    |          | 124561   | 102     |      |          | <del>`</del> _                      |  |
|   |                                       |              |    |          | 124858   | 2       |      |          |                                     | - 0 - 1 1                                  |
| N4C13A<br>OLT                                 |                                       | Purchased    | No |          |          | 100     | Each | 436.0000 | 3                                   | 3 /3/19/10                                 |
|   |                                       |              |    | Locatio  | <u>n</u> | Loc Oty |      | Loc Code |                                     |  |
|   |                                       |              |    | ST356    |          | 362     |      |          |                                     |  |
|   |                                       |              |    |          | 123900   | 3       |      |          |                                     |  |
|   |                                       |              |    |          | m125709  | 9       |      |          |                                     |  |
|   |                                       |              |    |          | m125978  | 100     |      |          | <del></del>                         | <u> </u>                                   |
|   |                                       |              |    |          | m126193  | 250     |      |          |                                     | <del></del>                                |
|   |                                       |              |    | ST514    |          | 72      |      |          |                                     | <del></del>                                |
|   |                                       |              |    |          | 124805   | 72      |      |          | <del>-</del>                        | <del></del>                                |
|   |                                       |              |    | ST516    |          | 2       |      |          | <del></del>                         | _  |
|   |                                       |              |    |          | 124215   | 2       |      |          |                                     | - <del></del>                              |

| DQA:          |                               |                                     | Date:     |               |             | DART                           |                    |           |                     |                        |                    |                            |                     |
|---------------|-------------------------------|-------------------------------------|-----------|---------------|-------------|--------------------------------|--------------------|-----------|---------------------|------------------------|--------------------|----------------------------|---------------------|
| QA Closed:    |                               |                                     | Date:     |               |             | WORK ORDER NON                 | -C(                | ONFO      | RMANCE / UF         |                        | Vork Order up      | odate only                 | AEROSPACE           |
|               |                               |                                     |           |               |             | DISPOSITION                    |                    |           |                     |                        | EPARTMENT          |                            |                     |
| Work Orde     | er: _                         |                                     |           |               |             | <u> </u>                       | ı                  |           | a                   |                        | 7                  |                            |                     |
| Part N        | lo                            |                                     |           |               |             | Rework<br>Scrap                |                    |           | Skid-tube Machining | Crosstube<br>Small Fab | <b>—</b>           | Water Jet<br>d. Eng. Coor. | Engineering Quality |
| NCR N         | lo                            |                                     |           |               |             | Use-as-is Suspected Unapproved |                    | Therr     | noforming Large Fab | Finishing Composite    | Rec/Sto            | re/Packaging<br>Supplier   | Other               |
| Root          |                               |                                     | -         |               | Desc        | ription of work order update   |                    | nitial    | Acti                | ion                    | Sign &             |                            |                     |
| Cause         |                               | Date                                | Step      | Qty           |             | or non-conformance             | Ch                 | ief Eng   | Descri              | iption                 | Date               | Verification               | QC Inspector        |
| Design        |                               |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Doc/Data      | $\sqcap$                      |                                     | ·         |               |             |                                | <u> </u>           |           |                     |                        |                    |                            |                     |
| Equip/Tooling |                               |                                     |           |               |             |                                | 1                  |           |                     |                        |                    |                            |                     |
| Handling/Pre  |                               |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Material      |                               |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Operator      |                               |                                     |           |               | ŀ           |                                |                    |           |                     |                        |                    |                            |                     |
| Offset/Setup  | up .                          |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Process       | <del></del>                   |                                     |           |               | İ           |                                |                    |           |                     |                        |                    |                            |                     |
| Supplier      |                               |                                     |           |               |             |                                | İ                  |           |                     |                        |                    |                            |                     |
| Training      |                               |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Transport     |                               |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
| Unapproved    | $\neg$                        |                                     |           |               |             |                                |                    |           |                     |                        |                    |                            |                     |
|               |                               |                                     | ,         |               |             |                                | FAI                | ULT CAT   | TEGORY              |                        | <u> </u>           | <b>S</b>                   |                     |
| Landir        | ng G                          | ear                                 |           |               |             | General                        |                    |           |                     |                        |                    |                            |                     |
| ſ             | 7                             | Bending                             |           |               |             | Bend                           |                    | Folio/F   | Program             | Γ                      | Outside Dim        | ensions                    | Pressure/Forced     |
| Ī             |                               | Centre No                           | ot Concer | ntric         |             | BOM/Route                      |                    | Grain     |                     |                        | Over/Under         | tolerance                  | Set-up              |
| Ī             | $\neg$                        | Cracks                              |           |               |             | Broken/Damage/Defect           |                    | Hardwa    | are.                |                        | Part Incorre       | ct T                       | Temperature/Cure    |
| Ì             | Cracks Crimp/Kink/Ripple/Wave |                                     | -         | Burrs         |             | Inspect                        | ion Incomplete/Un  | qualified | Part Lost/Mi        | ssing                  | Weld               |                            |                     |
| Ì             | Cuffs Crimp/Kink/Ripple/Wave  |                                     |           | Contamination |             | · ·                            | tions Incomplete/U | · —       | Part Moved          | Ī                      | Wrong Stock Pulled |                            |                     |
|               | Crushing                      |                                     |           |               |             | Countersink                    |                    | 4         | ned/off center      | .                      | Positioned V       | ے<br>Vrong                 | <b>_</b>            |
| ŀ             | Heat Treat                    |                                     |           | Cut Too Short | -           | Mislabe                        | _                  |           | Power Loss/         |                        | Other              |                            |                     |
| •             | Inspection Strip in Tube      |                                     |           |               | Drawing     | -                              | Misread            |           | L                   |                        | Č                  |                            |                     |
| 1             | Marks/Chatter                 |                                     |           |               | Drill Holes | -                              | Off-set            |           |                     |                        | <u></u>            |                            |                     |
|               | $\overline{}$                 |                                     |           |               |             | Finish                         |                    | ł         | Calibration         |                        | <del></del>        |                            |                     |
|               | _                             | Turning Sequence Wave/Twist in Tube |           |               |             | Fit/Function                   |                    | ł         | Sequence            | •                      |                    |                            |                     |

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| Work Order ID:                    | 104332<br>D4148-041  |       |          |          |   |         |       | Start I    | Date: 7/16/13  | Required Date: 7/16/13 |
|-----------------------------------|----------------------|-------|----------|----------|---|---------|-------|------------|--|------------------------|
| Parent Item:<br>Parent Item Name: | FWD X-TUBE LUG ASS'Y |       |          |          |   |         |       |            | Qty: 1.00  | Required Qty: 1.00     |
|                                   |                      | NI-   |          |          |   | 100     | Each  | 24.0000    |  |                        |
| MS17984-C413<br>Quick Release Pin | Purchased            | No    |          |          |   | 100     | Eacii | 24.0000    | 1  | 2/30/12                |
|                                   |                      |       | Location | Į.       |   | Loc Qty |       | Loc Code   |  |                        |
|                                   |                      |       | ST332    |          |   | 24      |       |            |  | - 1112622              |
|                                   |                      |       |          | 118612   |   | 2       |       |            |  | M126275                |
|                                   |                      |       |          | m125827  |   | 22      |       |            |  | - / / /                |
| MS20615-4M18                      | Purchased            | No    |          | •        |   | 100     | Each  | 547.0000   | 8  | 8/1/20/1               |
| Rivet                             |                      | - 110 |          |          |   |         |       |            | Company of the compan | 713/0//18              |
|                                   |                      |       | Location | Ţ        |   | Loc Qty |       | Loc Code   | •  |                        |
|                                   |                      |       | ST312    |          | _ | 547     |       |            |  |                        |
|                                   |                      | •     |          | 125162   |   | 97      |       |            |  | - /2 / / /             |
|                                   |                      |       |          | 125654   |   | 450     |       |            | <u>`</u>   | -                      |
| NAS1149C0332R<br>WASHER           | Purchased            | No    | ν,       |          |   | 100     | Each  | 11,878.000 | 4  | 1 (3/09/12             |
|                                   |                      |       | Location | 1        |   | Loc Qty |       | Loc Code   |  |                        |
|                                   |                      |       | FP001    |          |   | 264     |       |            |  |                        |
|                                   |                      |       |          | 123355   |   | 264     |       |            |  |                        |
|                                   |                      |       | ST292    |          |   | 182     |       |            |  |                        |
|                                   |                      |       |          | 123248   |   | 18      |       |            |  |                        |
|                                   |                      |       |          | 123759   |   | 73      |       |            |  | ·                      |
|                                   |                      |       |          | 125268   |   | 91      |       |            |  | _                      |
|                                   |                      |       | ST511    |          |   | 10000   |       |            |  |                        |
|                                   |                      |       |          | 125654   |   | 10000   |       |            |  | _                      |
|                                   |                      |       | ST517    | -,       |   | 1432    |       |            | <del>,/</del> -  | - 0.11                 |
|                                   |                      |       |          | 124580   |   | 1432    |       |            |  | - /////                |
| NAS1149C0432R                     | Purchased            | No    |          |          |   | 100     | Each  | 8,212.0000 | 6  | 6                      |
| WASHER                            |                      |       |          |          |   |         |       |            |  | 7/10/10/10             |
|                                   |                      |       | Location | <u>l</u> |   | Loc Oty |       | Loc Code   |  |                        |
|                                   |                      |       | ST292    |          |   | 3212    |       |            |  | _ /                    |
|                                   |                      |       |          | 119124   |   | 6       |       |            |  | _                      |
|                                   |                      |       |          | 122441   |   | 445     |       |            |  | -                      |
|                                   |                      |       |          | m125807  |   | 2761    |       |            |  | _                      |
|                                   |                      |       | ST510a   |          |   | 5000    |       |            |  | _                      |
|                                   |                      |       |          | m126221  |   | 5000    |       |            |  |                        |

| DQA:          |                          |                              | Date:                              |                 |               |                              |               |                         |                                       |              |               |                | ***               | T A A C         |
|---------------|--------------------------|------------------------------|------------------------------------|-----------------|---------------|------------------------------|---------------|-------------------------|---------------------------------------|--------------|---------------|----------------|-------------------|-----------------|
| QA Closed:    |                          |                              | Date:                              |                 |               | WORK ORDER NON-              | -C(           | ONFO                    | RMANCE / UPDA                         |              | ork Order up  | date only      | 7                 | AEROSPACE       |
| Work Orde     | \r.                      |                              |                                    |                 |               | DISPOSITION                  |               |                         | A                                     | AGAINST DE   | PARTMENT/     | PROCESS        |                   |                 |
| WOIR OIGE     | -                        |                              | **                                 |                 |               | Rework                       |               |                         | Skid-tube Cr                          | rosstube     |               | Water Jet      | 7                 | Engineering     |
| Part N        | lo.                      |                              |                                    |                 |               | Scrap                        |               |                         | <b></b>                               | mall Fab     | Pro           | d. Eng. Coor.  | $\dashv$          | Quality         |
|               | _                        |                              |                                    |                 |               | Use-as-is                    |               |                         | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | Finishing    |               | re/Packaging   | 1                 | Other           |
| NCR N         | 10.                      |                              |                                    |                 |               | Suspected Unapproved         |               |                         | - <del>-</del> <del></del>            | mposite      | ·             | Supplier       |                   |                 |
|               |                          |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Root          |                          |                              |                                    |                 | Desci         | ription of work order update |               | Initial                 | Action                                |              | Sign &        |                |                   |                 |
| Cause         | _                        | Date                         | Step                               | Qty             |               | or non-conformance           | Ch            | ief Eng                 | Descriptio                            | n            | Date          | Verification   |                   | QC Inspector    |
| Design        | _                        |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Doc/Data      | _                        |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Equip/Tooling | _                        |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Handling/Pre  |                          |                              |                                    |                 |               |                              | :             |                         |                                       |              |               |                |                   |                 |
| Material      | _                        |                              |                                    |                 |               |                              |               | •                       |                                       |              |               |                |                   |                 |
| Operator      | _                        |                              |                                    |                 |               |                              |               |                         | ·                                     |              |               |                |                   |                 |
| Offset/Setup  | -                        |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Process       | $\dashv$                 | 1                            |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Supplier      | $\dashv$                 |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Training      | $\dashv$                 |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Transport     | _                        |                              |                                    |                 |               |                              |               |                         |                                       |              |               |                |                   |                 |
| Unapproved    |                          | ····                         |                                    |                 |               |                              |               | UTCA                    | FECORY                                |              |               |                |                   |                 |
| Landir        |                          |                              |                                    |                 |               | General                      | FAI           | ULI CA                  | TEGORY                                |              |               |                |                   |                 |
| Lanuii        |                          | Bending                      |                                    |                 |               | Bend                         |               | ا دمانه ۱۰              | Program                               |              | Outside Dim   | onsions [      | ٦,,               | ressure/Forced  |
|               | _                        | Centre No                    | nt Concer                          | ntric           | -             | BOM/Route                    | <del> </del>  | Grain                   | Togram                                |              | Over/Under    | <u> </u>       | _                 | et-up           |
|               | -                        | Cracks                       | or Concer                          | itiit ,         | -             | Broken/Damage/Defect         | <del> </del>  | Hardwa                  | are                                   |              | Part Incorrec | _              | _                 | emperature/Cure |
|               | -                        |                              | nk/Rinnle                          | /\ <i>M</i> ave |               | Burrs                        | ┢─            | 4                       | ion Incomplete/Unquali                | ified -      | Part Lost/Mis |                | -                 | eld             |
|               | _                        | Cuffs Crimp/Kink/Ripple/Wave |                                    |                 | Contamination |                              | 1             | tions Incomplete/Unclea |                                       | Part Moved   | -             |                | rong Stock Pulled |                 |
|               |                          | Crushing                     |                                    | $\vdash$        | Countersink   | <u> </u>                     | 1             | gned/off center         |                                       | Positioned W | L<br>∕rong    | ۰۰۰            | Tong Stock Funcu  |                 |
|               | _                        | Crushing Heat Treat          |                                    |                 | Cut Too Short | $\vdash$                     | Mislabe       |                         | ····                                  | Power Loss/S | _             | $\neg_{\circ}$ | ther              |                 |
|               | Inspection Strip in Tube |                              |                                    | Tube            |               | Drawing                      | $\overline{}$ | Misread                 |                                       | <u>i</u>     | 1             |                |                   |                 |
|               | Marks/Chatter            |                              |                                    |                 |               | Drill Holes                  |               | Off-set                 |                                       |              |               |                |                   |                 |
|               | $\blacksquare$           |                              |                                    |                 |               | Finish                       |               | 1                       | Calibration                           |              |               |                |                   |                 |
|               | -                        |                              | urning Sequence Vave/Twist in Tube |                 |               | Fit/Function                 |               | 1                       | Sequence                              |              |               |                |                   |                 |



## **D4148-041 FWD X-TUBE LUG ASSY**

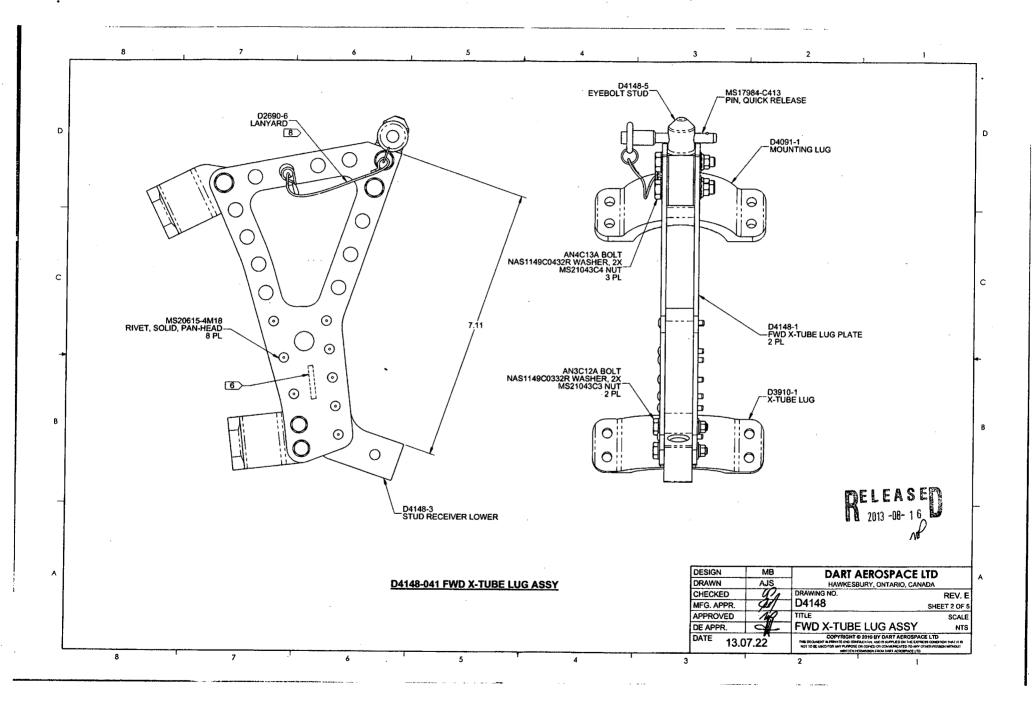
NOTES:
1) MATÉRIAL: N/A
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4148-041" PER DART QSI 044 6.1
7) WEIGHT: 3.66 lbs
8) ATTACH D2690-6 TO D4148-1 BY LOOPING AROUND A LIGHTENING HOLE FIRST AND THEN SECURE TO MS17984-C413

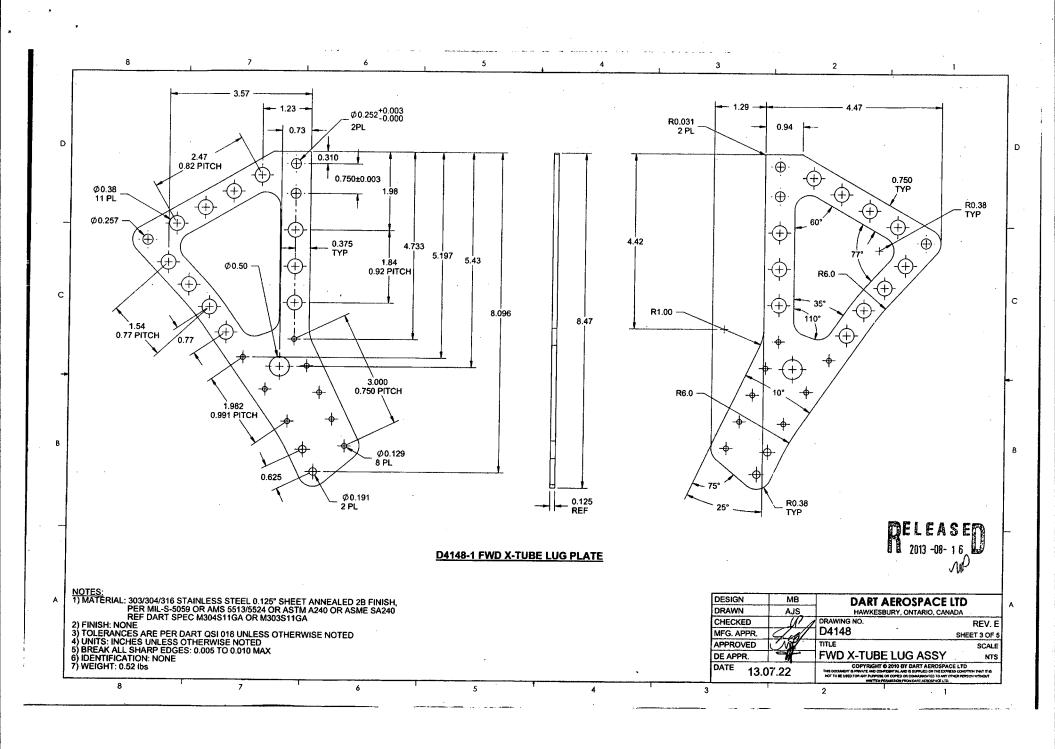
| ITEM | QTY<br>-041 | P/N           | DESCRIPTION            |
|------|-------------|---------------|------------------------|
|      | Х           | D4148-041     | FWD X-TUBE LUG ASSY    |
|      |             |               |                        |
| 11   | 11          | D2690-6       | LANYARD                |
| 2    | 1           | D3910-1       | X-TUBE LUG             |
| 3    | . 1         | D4091-1       | MOUNTING LUG           |
| 4    | 2           | D4148-1       | FWD X-TUBE LUG PLATE   |
| 5    | 1           | D4148-3       | STUD RECEIVER LOWER    |
| 6    | 1           | D4148-5       | EYEBOLT STUD           |
| 7    | 2           | AN3C12A       | BOLT                   |
| 8    | 3           | AN4C13A       | BOLT                   |
| 9    | 1           | MS17984-C413  | PIN, QUICK RELEASE     |
| 10   | 8           | MS20615-4M18  | RIVET, SOLID, PAN-HEAD |
| 11   | 2           | MS21043C3     | NUT, SELF-LOCKING      |
| 12   | 3           | MS21043C4     | NUT, SELF-LOCKING      |
| 13   | 4           | NAS1149C0332R | WASHER                 |
| 14   | 6           | NAS1149C0432R | WASHER                 |

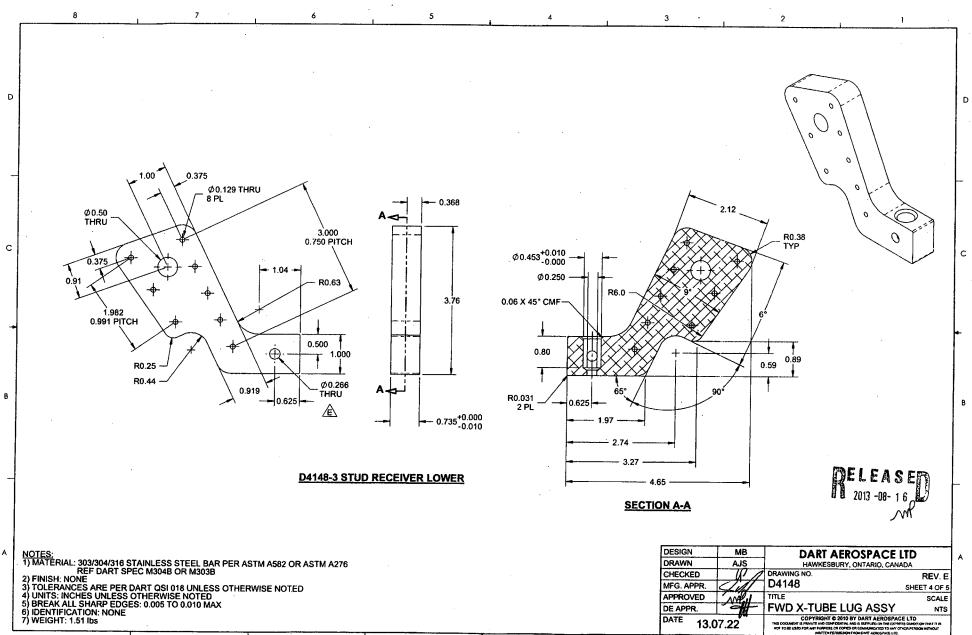


| E    | B6-4 Ø0.266 HOLE ADDED FOR CARGO TUBE INSTALLATIONS.  | AJS | 13.07.22 |
|------|---|-----|----------|
| Ð    | HOLE DIA CHANGED TO 0.252" (D6-3); HOLE DIA CHANGED TO 0.250" (C8-5), REPLACED QTY(2) AN3C12A, MS21043C3 AND QTY(4) NAS1149C0332R WITH QTY(2) AN4C13A, MS21043C4 AND QTY(4) NAS1149C0432R (D3-1,C4-2)   | sc  | 11.02.22 |
| С    | REDESIGNED D4148-1/-3 TO ADDRESS COMPATIBILITY ISSUES WITH D350-591 SHORT STEPS   | мв  | 10.10.12 |
| В    | REPLACED 0.TY(3) MS20615-4M18 WITH 0.TY(2) EACH<br>AN3C12A, MS21043-3 AND 0.TY(4) NAS1148C0332R<br>WSSHER (2N D3-1, 87-2 & 84-2), MS20615-4M18 WAS<br>MS20615-4M20 (2N D3-1 & 87-2); ØD.1912 PL REPLACES<br>ØD.129 3 PL WAS 10 PL (2N D6-3), ØD.129 7 PL WAS 10 PL (ZN A7-3);<br>ØD.191 WAS 0.129 (ZN C6-5);<br>REASON: SEE TR-03S0-607-2 REV. B. | МВ  | 10.07.05 |
| Α    | NEW ISSUE   | MB  | 10.06.18 |
| RĘV. | DESCRIPTION   | BY  | DATE     |

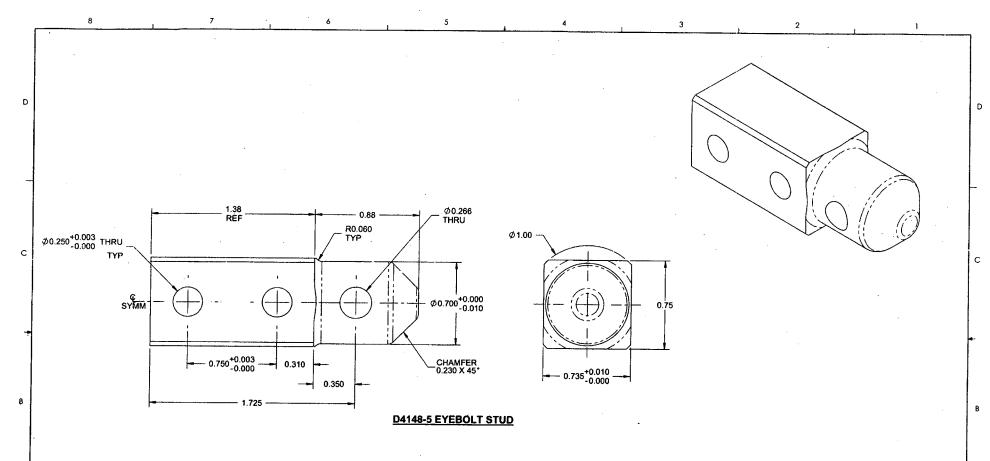
| REV.   |        | DESCRIPTION BY DATE      |              |
|--|--------|--------------------------|--------------|
| DESIGN MB  |        | DART AEROSPACE LTD       |              |
| DRAWN  | AJS    | HAWKESBURY, ONTARIO, CAN | ;            |
| CHECKED  | 1 1    | DRAWING NO.              | REV. E       |
| MFG. APPR.   | / July | 7 D4148                  | SHEET 1 OF 5 |
| APPROVED   | WH.    | TITLE                    | SCALE        |
| DE APPR.   |        | TFWD X-TUBE LUG ASSY     | NTS          |
| DATE 13.07.22 COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PROVIDE ON A THE COPYRISE CONDITION THAT |        |                          |              |







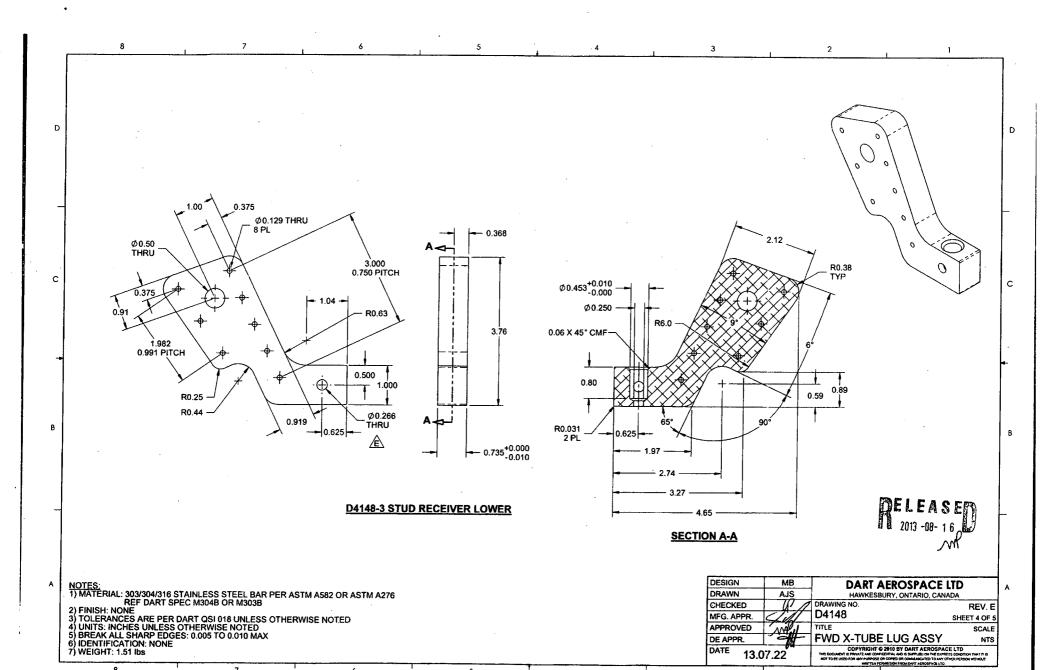
| DESIGN        | MB   | DART AEROSPACE LTD   |     |
|---------------|------|--|-----|
| DRAWN         | AJS  | HAWKESBURY, ONTARIO, CANADA  |     |
| CHECKED       | 101  | DRAWING NO. REV.   | E   |
| MFG. APPR.    | 411  | D4148 SHEET 4 OF   | - 5 |
| APPROVED      | MARI | TITLE SCAI   | E   |
| DE APPR.      |      | FWD X-TUBE LUG ASSY NT   | rs  |
| DATE 13.07.22 |      | COPYRIGHT © 2010 BY DART AEROSPACE LTD HIS DOCUMENT IS PRIVATE AND COMPOSITION AND IS SUPPLIED ON THE SERVICE OF UNITY OF THE PRIVATE AND COMPOSITION OF COMMISSION OF THE CONTROL PERSON WITHOUT HIS TORE USED FOR ANY HAVEOUS ON COMPOSITION TO THE OTHER PERSON WITHOUT |     |

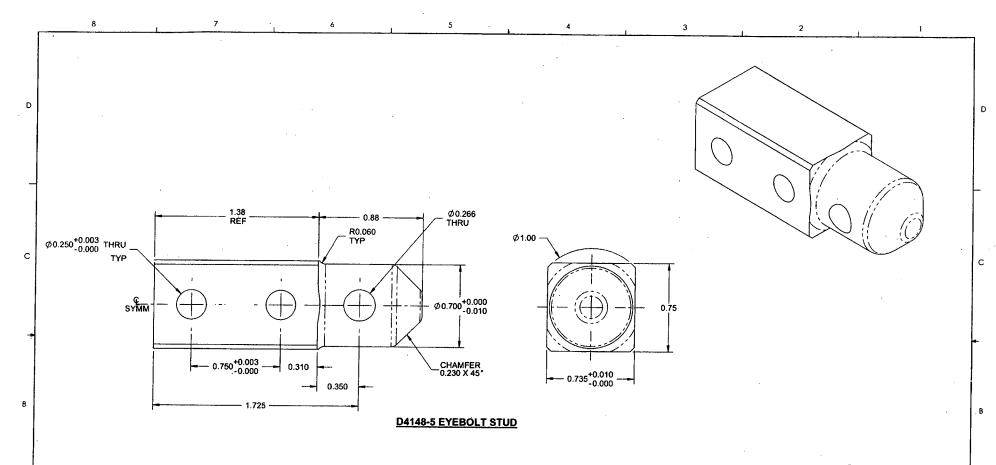


NOTES:
1) MATERIAL: 303/304/316 STAINLESS STEEL BAR PER ASTM A582 OR ASTM A276
REF DART SPEC M304B OR M303B
2) FINISH: NONE
3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK ALL SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE
7) WEIGHT: 0.27 lbs

| DESIGN   | MB    | DART ÁEROSPACE LTD          |              |  |
|--|-------|-----------------------------|--------------|--|
| DRAWN AJS  |       | HAWKESBURY, ONTARIO, CANADA |              |  |
| CHECKED  | 10/   | DRAWING NO.                 | REV. E       |  |
| MFG. APPR.   | ( pt/ | D4148                       | SHEET 5 OF 5 |  |
| APPROVED   | ANI   | TITLE                       | SCALE        |  |
| DE APPR.   |       | FWD X-TUBE LUG ASSY         | NTS          |  |
| DATE 13.07.22 COPYRIGHT © 2010 BY DART A EROSPACE LTD Into Document of Partial And Conference and Partial Conferen |       | ESS CONCITION THAT IT IS    |              |  |

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NOTES:
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| DESIGN     | MB    | DART ÁEROSPACE   | LTD          |
|------------|-------|--|--------------|
| DRAWN      | AJS   | HAWKESBURY, ONTARIO, CANADA  |              |
| CHECKED    | W/    | DRAWING NO.  | REV. E       |
| MFG. APPR. |       | D4148  | SHEET 5 OF 5 |
| APPROVED   | ANI   | TITLE  | SCALE        |
| DE APPR.   | -     | FWD X-TUBE LUG ASSY  | NTS          |
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